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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/889,598 | 11/21/2001 | Johannes I.M. Cobben | 00771.00023 | 6958 |

22907 7590 03/13/2003

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| EXAMINER | |
| CARTER, MONICA SMITH | |
| ART UNIT | PAPER NUMBER |

3722

DATE MAILED: 03/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

| | | | |
|--|-------------------------------|-------------------------------|------|
| | Application No. 09/889,598 | Applicant(s) COBBEN ET AL. | (D)T |
| | Examiner Monica S. Carter | Art Unit 3722 | |

-- The MAILING DATE of this communication appears on the cover sheet with the corresponding address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 21 November 2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 26-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 50 is/are allowed.
- 6) Claim(s) 26-49 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ . |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6 . | 6) <input type="checkbox"/> Other: _____ . |

**DETAILED ACTION**

Preliminary amendment received November 21, 2001 has been entered.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Regarding claim 45, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention.

See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 26, 30-33, 36, 37 and 41-45 are rejected under 35 U.S.C. 102(e) as being anticipated by Belousov et al. (6,328,342).

Belousov et al. disclose a tape data carrier for protecting articles and documents from counterfeiting and copying comprising a perforation pattern (as seen in figure 7) wherein at least some of the perforations forming part of the perforation pattern extend over only a part of the thickness of the document and the thickness of the remaining part of the document is modulated in accordance with the image to be displayed (see col. 9, lines 66-67 through col. 10, lines 1-5). When viewed against a bright background, the image would display gray tones.

Regarding claim 30, the perforation represents an image (as seen in figure 7).

Regarding claims 31, 33 and 43, Belousov et al. disclose a material arranged in the perforations (see col. 5, lines 63-65). This material would, inherently, include a vapor-deposited metal layer.

Regarding claims 32 and 44, Belousov et al. disclose the material being formed by ink which lights up under UV light (see col. 6, lines 29-33).

Regarding claims 36 and 37, the perforation pattern is provided with perforations modulated in size (as seen in figure 7, the image produced by the perforations has varying sizes).

Regarding claim 41, the cross-section of the perforation pattern in its transverse plane is unequal to a circle (the perforation pattern "CARD" in figure 7 is unequal to a circle).

Regarding claim 42, the image is a code concealed in the representation of the image.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 27-29, 34, 35 and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belousov et al., as used above.

Belousov et al. disclose the claimed invention except for at least some of the perforations forming part of the perforation pattern extending at an angle differing from 90 degrees relative to the main plane of the document. It would have been obvious to one having ordinary skill in the art at the time the invention was made to any desired value for the angle, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F. 2d 272, 205 USPQ 215 (CCPA 1980).

Regarding claims 34 and 35, matters related to the choice of ornamentation producing no mechanical effect or advantage considered to constitute the invention are considered obvious and do not impart patentability. *In re Seid*, 73 USPQ 431.

Regarding claims 38 and 39, it has been held that the recitation that an element is "adapted to" perform a function is not a positive limitation but only requires the ability to so perform. *In re Hutchinson*, 69 USPQ 138. Therefore, the reference applied is only required to have the ability to perform the claimed function. Belousov et al. has the ability to present a stereo image or an image which differs per angle of view.

7. Claims 46-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belousov et al., as used above, in view of Andriash et al. (5,550,346).

Belousov et al. disclose the claimed invention except for explicitly disclosing applying the image by means of a laser engraving technique.

Andriash et al. disclose that it is known to provide perforations in sheet material with a laser (see col. 1, lines 59-64). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify Belousov's invention to include laser-engraving the perforations in the document, as taught by Andriash et al., to provide holes free from burrs and having a smooth outer surface.

Regarding claims 48 and 49, the method for arranging a perforation pattern in a forge-proof document is inherently disclosed in the above rejections.

Allowable Subject Matter

8. Claim 50 is allowed.

Conclusion

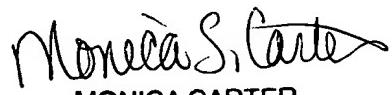
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica S. Carter whose telephone number is (703) 305-0305. The examiner can normally be reached on Monday-Thursday (8:00 AM - 5:30 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea L. Wellington can be reached on (703) 308-2159. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.


MONICA CARTER
PATENT EXAMINER

March 7, 2003